

CLAIMS

1. A photosensitive resin composition comprising (A) hydrophobic polymers obtained from at least two or more water dispersion latexes, (B) a photopolymerizable compound and (C) a photopolymerization initiator, wherein said two or more hydrophobic polymers each is present in a fine particle state.

2. The photosensitive resin composition as claimed in claim 1, wherein the particle diameter distribution of the fine particles as the component (A) has two or more peaks and the ratio of respective particle diameters at the peaks is 2 times or more.

3. The photosensitive resin composition as claimed in claim 1, which further comprises (D) a hydrophilic polymer.

4. The photosensitive resin composition as claimed in claim 3, wherein at least one hydrophobic polymer out of the component (A) and the hydrophilic polymer as the component (D) have a common skeleton structure.

5. The photosensitive resin composition as claimed in claim 1, which further comprises (E) a viscosity adjusting agent.

6. The photosensitive resin composition as claimed in claim 5, wherein the component (E) is a carboxylic acid-based copolymer.

7. The photosensitive resin composition as claimed in claim 1, which further comprises (F) an aggregation inhibitor.

8. The photosensitive resin composition as claimed in claim 7, wherein the component (F) is a nonionic surfactant.

9. The photosensitive resin composition as claimed in claim 1, which further comprises (G) a conjugated diene oligomer having no crosslinking group.

10. The photosensitive resin composition as claimed in claim 9, wherein the molecular weight of the component (G) is from 500 to 10,000.

11. The photosensitive resin composition as claimed in any one of claims 1 to 10, wherein at least one member out of the component (B) is an alkyl methacrylate.

12. The photosensitive resin composition as claimed in claim 11, wherein the alkyl methacrylate in the component (B) is a linear alkyl methacrylate having a carbon number of 8 to 18.

13. A photosensitive resin composition layer obtained from the photosensitive resin composition claimed in claim 1, said layer having a percentage change of 30% or less in the compressive elasticity between before and after dipping in a cosolvent and having a swelling ratio of 16% or less.

14. A photosensitive resin printing original plate comprising a support having coated thereon a photosensitive layer comprising the photosensitive resin composition claimed in any one of claims 1 to 13.